#### SISTEM TERDISTRIBUSI

## "Membuat Replikasi Master-Slave untuk Database MySQL atau MariaDB"



#### Disusun oleh:

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# PROGRAM STUDI SISTEM KOMPUTER FAKULTAS ILMU KOMPUTER UNIVERSITAS SRIWIJAYA PALEMBANG 2023/2024

Perangkat yang digunakan pada percobaan replikasi:

1. Linux Mint

2. MySql / MariaDB

3. IP Master: 192.168.100.87 4. IP Slave: 192.168.100.86

### Konfigurasi Server MariaDB Master

Ubah konfigurasi MariaDB pada CLI

```
bind-address
                     = 192.168.100.87
         File Edit View Search Terminal Help
          GNU nano 6.2
                                         /etc/mysql/mariadb.conf.d/50-server.cnf
         server-id
         log bin
                                = /var/log/mysql/mysql-bin.log
```

```
Buat user untuk akses replikasi

Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 37
Server version: 10.6.16-MariaDB-Oubuntu0.22.04.1-log Ubuntu 22.04
 Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
 Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
 MariaDB [(none)]> GRANT REPLICATION SLAVE ON *.* TO 'replica2'@'192.168.100.86' IDENTIFIED BY 'secret2';
                                                                                                                             🗓 🕼 🛔 📢 20:37
```

#### Kunci database agar tidak ada perubahan pada saat konfigurasi replikasi

```
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [(none)]>
MariaDB [(none)]> GRANT REPLICATION SLAVE ON *.* TO 'replica2'@'192.168.100.86' IDENTIFIED BY 'secret2';
MariaDB [(none)]>
MariaDB [(none)]> FLUSH PRIVILEGES;
```

Menampilkan status master. File dan Position dibutuhkan pada saat konfigurasi Slave.

#### Konfigurasi Server MariaDB Slave

Mengubah konfigurasi MariaDB



#### Konfigurasi koneksi ke Master

```
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 40
Server version: 10.6.16-MariaDB-Oubuntu0.22.04.1-log Ubuntu 22.04

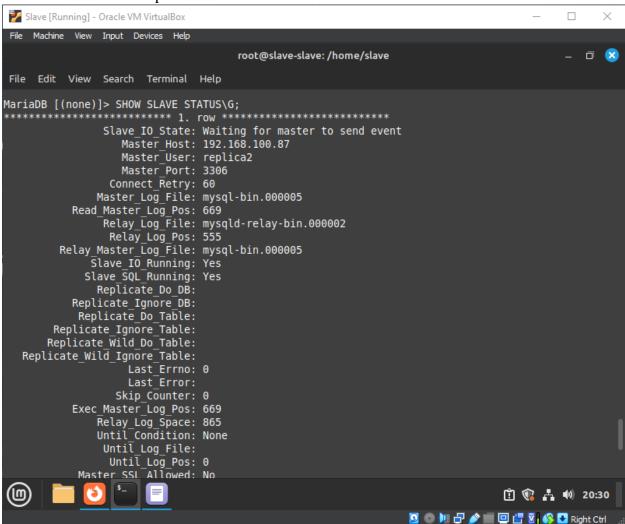
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)] > CHANGE MASTER TO MASTER_HOST='192.168.100.87', MASTER_USER='replica2', MASTER_PASSWORD='secret2', MASTER_LOG_FILE='mysql-bin.000005', MASTER_LOG_POS=669;

\[ \text{ } \te
```

#### Jalankan slave dan Tampilkan status slave



### Pengujian

Pembuatan Database CRUD Record Pada Server Master.

Setiap selesai menjalankan satu perintah pada server Master periksa server Slave apakah ada terjadi hal yang sama pada server Master.

Tampilan database pada Slave